

**Table 1. Number of All Hospitalizations and Number and Percent of Hospitalizations
Related to Birth Defects and Genetic Diseases by Race/Ethnicity Among Persons
Younger Than 20 Years, South Carolina and California, 1991**

Race	South Carolina		California	
	N [*]	BD & GD ^H	N [*]	BD & GD ^H
White	27,267	1,985 (7.3%)	150,089	16,911 (11.3%)
Black	18,970	2,231 (11.8%)	35,883	5,309 (14.8%)
Hispanic	368	47 (12.8%)	104,039	11,841 (11.4%)
Other	209	13 (6.2%)	25,355	3,515 (13.9%)
Total	46,814	4,276 (9.1%)	315,366	37,576 (11.9%)

* Number of all hospitalizations among persons younger than 20 years, excluding admissions at birth and deliveries.

^HThe number (percentage) of hospitalizations related to birth defects and genetic diseases.

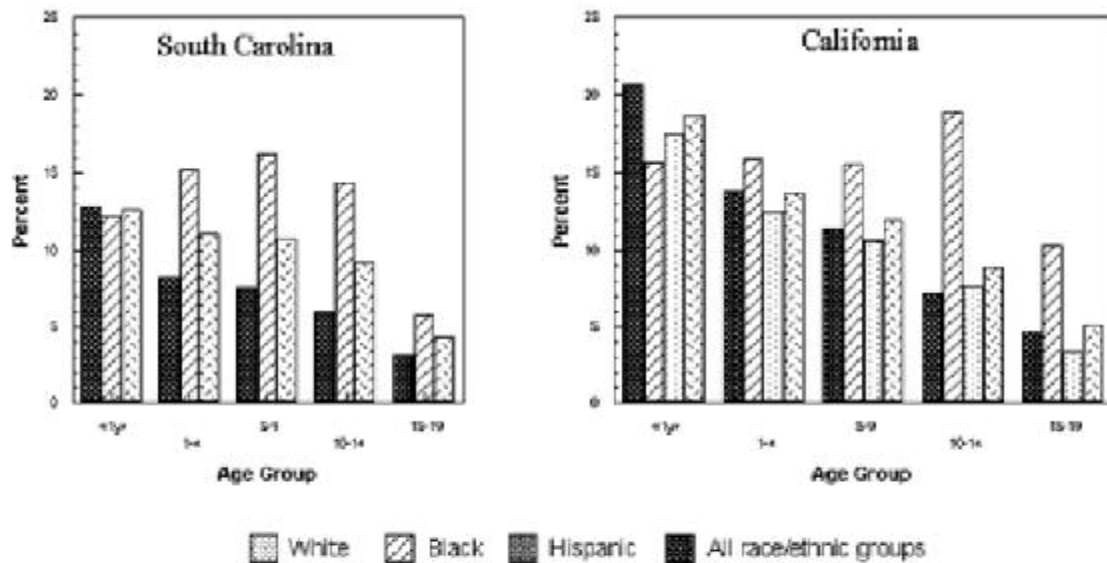


Figure 1—Proportion of hospitalizations related to birth defects and genetic diseases by race/ethnicity and age, South Carolina and California, 1991.

Table 2. Mean length of Stay and In-Hospital Mortality Rate for Hospitalizations Related to Birth Defects and Genetic Diseases and Hospitalizations for Other Reasons by Age, South Carolina and California, 1991

Age	State	Mean Length of Stay (days)		In-Hospital Mortality (per 100 hospitalizations)	
		BD & GD [*]	Other ^H	BD & GD [*]	Other ^H
< 1 year	South Carolina	7.6	4.7	2.8	0.5
	California	12.4	4.7	5.0	0.7
1 - 4 years	South Carolina	5.1	3.5	0.7	0.3
	California	6.4	3.9	1.1	0.5
5 - 9 years	South Carolina	4.5	4.1	0.5	0.3
	California	5.2	5.1	0.9	0.5
10 - 14 years	South Carolina	5.3	5.7	0.6	0.4
	California	6.2	8.0	0.8	0.4
15 - 19 years	South Carolina	6.1	4.5	1.2	0.4
	California	6.1	7.0	0.7	0.6
Total					
White	South Carolina	5.9	4.3	1.8	0.4
Black		6.1	4.6	1.0	0.4
All races		6.0	4.4	1.4	0.4
White	California	8.0	6.3	2.3	0.5
Black		8.7	5.6	1.9	0.7
Hispanic		9.8	5.1	3.2	0.6
All races		8.7	5.7	2.7	0.6

^{*} BD & GD - hospitalizations related to birth defects and genetic diseases.

^H Other - hospitalizations not related to birth defects and genetic diseases.

Table 3. Average Charge for Hospitalizations Related to Birth Defects and Genetic Diseases, Percentage of Total Hospitalization Charges, and Per Capita Charges by Age and State, South Carolina and California, 1991

Age	State	Mean Charges (\$US)		% of Total Charges ^l	Charges Per Capita ^o (\$US)
		BD & GD [*]	Other ^h		
< 1 year	South Carolina	11,646	4,369	28%	\$267
	California	38,021	8,497	51%	\$989
1-4 years	South Carolina	6,649	3,422	19%	\$37
	California	20,335	7,219	31%	\$90
5-9 years	South Carolina	6,357	4,409	15%	\$16
	California	13,809	8,561	18%	\$29
10-14 years	South Carolina	7,046	5,578	11%	\$15
	California	14,265	10,742	11%	\$28
15-19 years	South Carolina	8,147	4,867	7%	\$18
	California	14,519	10,071	7%	\$29
Total	South Carolina	8,418	4,468	16%	\$34
	California	25,632	9,009	28%	\$107

^{*}BD & GD- hospitalizations related to birth defects and genetic diseases.

^hOther - Hospitalizations not related to birth defects and genetic diseases.

^lCharges for hospitalizations related to birth defects and genetic diseases as a percent of all pediatric hospitalization charges.

^oCharges per capita are defined as total charges for hospitalizations related to birth defects and genetic diseases in each age group over the total number of children who were residents in the state in the age group.

Table 4. Expected Principal Source of Payment Percentages for Hospitalizations Related to Birth Defects and Genetic Diseases and Hospitalizations for Other Reasons, South Carolina and California, 1991

Principal Source of Payment	South Carolina		Principal Source of Payment	California	
	BD & GD*	Other ^H		BD & GD*	Other ^H
Medicaid	48%	37%	Medi-Cal	44%	39%
Blue Cross / Commercial	44%	50%	HMO/PHP	23%	26%
Other government	5%	3%	Private Insurance	22%	24%
Self pay	3%	8%	Other government	6%	3%
Other ^I	1%	2%	Self pay	3%	6%
			Other ^I	2%	2%

*BD & GD- hospitalizations related to birth defects and genetic diseases.

^HOther - Hospitalizations not related to birth defects and genetic diseases.

^IMedicare, Worker-s Compensation, indigent/charity.

^I Medicare, Worker-s Compensation, Title V, other nongovernment sources, medically indigent service.

Table 5. Types of Hospitalizations Related to Birth Defects and Genetic Diseases by Mean Age, Length of Stay, Average Charges, and Percent In-Hospital Mortality by State, South Carolina and California, 1991

Type of Hospitalization	Total Number		% of Total BD & GD*		Mean Age (Years)		Mean Length of Stay (days)		Mean Charges (\$US)		In-Hospital Mortality Rate (per 100 hospitalizations)	
	SC	CA	SC	CA	SC	CA	SC	CA	SC	CA	SC	CA
Central nervous system/eye defects	364	3218	8.5	8.6	4.6	4.4	7.2	9.2	8,769	22,272	1.4	2.2
Cardiovascular defects	695	9731	16.3	25.9	2.6	2.4	8.5	13.6	17,360	50,468	4.5	5.8
Cleft palate & cleft lip	151	1781	3.5	4.7	3.7	3.7	2.7	2.3	4,708	6,471	0.0	1.1
Gastrointestinal defects	330	2832	7.7	7.5	2.2	1.8	5.6	8.7	7,585	22,827	0.3	1.4
Genitourinary defects	333	2634	7.8	7.0	5.4	4.5	4.3	5.3	5,389	11,701	0.3	0.7
Musculoskeletal & limb defects	232	2617	5.4	7.0	5.8	5.0	3.7	4.2	6,308	10,162	0.0	0.4
Other structural birth defects	443	5163	10.4	13.7	5.6	5.6	7.7	7.9	11,468	21,790	1.8	2.2
Chromosomal defects	125	1540	2.9	4.1	3.5	3.6	5.0	6.9	5,769	15,428	1.6	4.5
Fetal alcohol syndrome	11	93	0.3	0.2	1.9	3.5	6.9	17.8	5,607	31,873	0.0	2.2
Hereditary neurocutaneous disorders	15	266	0.4	0.7	8.4	7.5	4.7	7.1	4,438	15,951	0.0	0.0
Hereditary metabolic disorders	110	1005	2.6	2.7	3.7	4.8	5.0	8.9	3,966	19,677	1.8	3.3
Cystic fibrosis	137	977	3.2	2.6	9.6	8.9	8.6	11.3	9,247	23,569	2.2	1.2
Hereditary immunodeficiencies	14	277	0.3	0.7	10.0	5.7	4.7	10.8	5,681	31,560	0.0	2.2
Non-sickling hereditary blood disorders	108	1158	2.5	3.1	9.2	7.8	4.5	5.3	8,091	16,749	0.9	1.2
Sickle cell diseases and thalassemias	1141	3390	26.7	9.0	8.1	9.6	4.8	4.3	4,483	7,009	0.1	0.3
Hereditary neurologic or storage diseases	62	849	1.4	2.3	8.7	8.9	8.1	14.6	8,547	33,008	4.8	3.8
Other hereditary disorders	5	45	0.1	0.1	6.6	5.9	4.0	7.3	6,751	13,317	0.0	2.2

*BD & GD` hospitalizations related to birth defects and genetic diseases.

Table 6. Rates of Hospitalizations Related to Birth Defects and Genetic Diseases by White and Black Race, South Carolina and California, 1991

Type of Hospitalization	South Carolina Hospitalization rates (per 1000 children)*		California Hospitalization rates (per 1000 children)*	
	White	Black	White	Black
Central nervous system/eye defects	3.43	3.42	3.76	4.60
Cardiovascular defects	6.45	6.62	10.56	11.88
Cleft palate & cleft lip	1.81	0.72	2.08	0.97
Gastrointestinal defects	3.52	2.32	3.58	2.49
Genitourinary defects	2.88	3.60	3.53	2.88
Musculoskeletal & limb defects	2.22	2.12	3.22	2.74
Other structural birth defects	4.26	4.00	6.71	5.45
Chromosomal defects	1.12	1.25	1.50	1.49
Fetal alcohol syndrome	0.08	0.15	0.09	0.50
Hereditary neurocutaneous disorders	0.12	0.17	0.38	0.18
Hereditary metabolic disorders	0.81	1.37	1.17	1.39
Cystic fibrosis	1.89	0.37	1.67	0.44
Hereditary immunodeficiencies	0.11	0.15	0.32	0.33
Non-sickling hereditary blood disorders	0.99	1.10	1.29	1.71
Sickle cell diseases and thalassemias	0.31	27.94	0.44	35.90
Hereditary neurologic or storage diseases	0.74	0.35	1.32	0.78
Other hereditary disorders	0.03	0.07	0.06	0.06

*Hospitalization rate is per 1000 children less than 20 years of age.

Appendix A-Birth Defect and Genetic Disease Categories and Corresponding ICD-9-CM Codes

Birth Defect and Genetic Disease Categories	ICD-9-CM Codes
Central nervous system/eye defects	740.00-743.90
Cardiovascular defects	745.00-747.90
Cleft palate & cleft lip	749.00-749.25
Gastrointestinal defects	750.00-751.90
Genitourinary defects	752.00-753.90, 654.00
Musculoskeletal & limb defects	754.00-755.90
Other structural birth defects	228.00-228.10, 520.00, 520.50, 524.00, 744.00-744.90, 748.00-748.90, 756.00-757.90, 759.00-759.40, 759.70, 759.82, 759.89, 759.90 758.00-758.90, 759.81, 759.83
Chromosomal defects	760.71
Fetal alcohol syndrome	237.70, 759.50-759.60
Hereditary neurocutaneous disorders or hamartoses	243.00, 255.20, 257.80, 270.00-270.80, 271.00-271.40, 271.80, 272.70, 275.00,
Hereditary metabolic/endocrine disorders	275.10, 277.10, 277.20, 277.40-277.60
Cystic fibrosis	277.00, 277.01
Hereditary immunodeficiencies	279.01-279.05, 279.11-279.13, 279.20, 279.80, 288.10, 288.20
Non-sickling hereditary blood disorders	282.00-282.30, 282.70-282.80, 284.00, 286.00-286.40, 773.00, 774.00 282.40, 282.60-282.69
Sickle cell diseases and thalassemias	307.23, 330.00, 330.10, 333.40, 334.00, 334.10, 335.00, 335.11, 345.60, 356.00-
Hereditary neurologic or storage diseases	356.30, 359.00-359.30
Other hereditary disorders	362.70, 363.50, 368.51-368.54, 368.61, 371.50, 377.16, 379.51, 448.00, 588.10